

NOTICE OF DRAFTSPERSON'S  
PATENT DRAWING REVIEWThe drawing is filed insert date 5-26-00 are Approved by the Draftsperson under 37 CFR 1.84(a) 152 Objected to by the Draftsperson under 37 CFR 1.84(e) 152 for the reasons indicated below. The Examiner will require submission of new, corrected drawings when necessary. A corrected drawing must be submitted according to the instructions on the back of this notice.

1. DRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings		8. ARRANGEMENT OF VIEWS. 37 CFR 1.84(j)
<input type="checkbox"/> Black ink - Color.		<input type="checkbox"/> Words do not appear on a horizontal, left-to-right fashion when page is either upright or turned so that the top becomes the right side, except for graphs. Figs. _____
<input type="checkbox"/> Color drawings are not acceptable until petition is granted. Figs(s) _____		<input type="checkbox"/> Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction. Figs. _____
<input type="checkbox"/> Pencil and non black ink not permitted. Figs(s) _____		<input type="checkbox"/> 9. SCALE. 37 CFR 1.84(k)
2. PHOTOGRAPHS. 37 CFR 1.84(b)		<input type="checkbox"/> Scale not large enough to show mechanism without crowding when drawing is reduced in size to two-thirds in reproduction. Figs. _____
<input type="checkbox"/> Full-tone set is required. Figs(s) _____		<input type="checkbox"/> 10. CHARACTER OF LINES, NUMBERS, & LETTERS. 37 CFR 1.84(d)
<input type="checkbox"/> Photographs may not be mounted. 37 CFR 1.84(c)		<input type="checkbox"/> Lines, numbers & letters not uniformly thick and well defined, clean, durable, and black (poor line quality). Figs(s) <u>9-12</u>
<input checked="" type="checkbox"/> Poor quality (half-tone). Figs(s) <u>3A-9B, 11, 19</u>		<input type="checkbox"/> 11. SHADING. 37 CFR 1.84(m)
3. TYPE OF PAPER. 37 CFR 1.84(e)		<input type="checkbox"/> Solid black areas pale. Figs(s) _____
<input type="checkbox"/> Paper not flexible, strong, white, and durable. Figs(s) _____		<input type="checkbox"/> Solid black shading not permitted. Figs(s) _____
<input type="checkbox"/> Erasures, alterations, overwritings, interlineations, folds, copy machine marks not accepted. Figs(s) _____		<input type="checkbox"/> Shade lines, pale, rough and blurred. Figs(s) _____
<input type="checkbox"/> Mylar, vellum paper is not acceptable (too thin). Figs(s) _____		<input type="checkbox"/> 12. NUMBERS, LETTERS, & REFERENCE CHARACTERS. 37 CFR 1.84(p)
4. SIZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes		<input type="checkbox"/> Numbers and reference characters not plain and legible. Figs(s) _____
<input type="checkbox"/> 21.0 cm by 29.7 cm (DIN size A4)		<input type="checkbox"/> Figure legends are poor. Figs(s) _____
<input type="checkbox"/> 21.6 cm by 27.9 cm (8 1/2 x 11 inches)		<input type="checkbox"/> Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1) Figs(s) _____
<input type="checkbox"/> All drawing sheets not the same size. Sheet(s) _____		<input type="checkbox"/> English alphabet not used. 37 CFR 1.84(p)(2) Figs(s) _____
<input type="checkbox"/> Drawings sheets not an acceptable size. Fig(s) _____		<input type="checkbox"/> Numbers, letters and reference characters must be at least 32 cm (1 1/8 inch) in height. 37 CFR 1.84(p)(3) Figs(s) _____
5. MARGINS. 37 CFR 1.84(g): Acceptable margins.		<input type="checkbox"/> 13. LEAD LINES. 37 CFR 1.84(q)
<input type="checkbox"/> Top 2.5 cm Left 2.5cm Right 1.5 cm Bottom 1.0 cm SIZE: A4 Size		<input type="checkbox"/> Lead lines cross each other. Fig(s) _____
<input type="checkbox"/> Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm SIZE: 8 1/2 x 11		<input type="checkbox"/> Lead lines missing. Fig(s) _____
<input type="checkbox"/> Margins not acceptable. Fig(s) _____		<input type="checkbox"/> 14. NUMBERING OF SHEETS OF DRAWINGS. 37 CFR 1.84(l)
<input type="checkbox"/> Top (T) Left (L)		<input type="checkbox"/> Sheets not numbered consecutively, and in Arabic numerals beginning with number 1. Sheet(s) _____
<input type="checkbox"/> Right (R) Bottom (B)		<input type="checkbox"/> 15. NUMBERING OF VIEWS. 37 CFR 1.84(u)
6. VIEWS. 37 CFR 1.84(h)		<input type="checkbox"/> Views not numbered consecutively, and in Arabic numerals, beginning with number 1. Fig(s) _____
<input type="checkbox"/> REMINDER: Specification may require revision to correspond to drawing changes.		<input type="checkbox"/> 16. CORRECTIONS. 37 CFR 1.84(w)
<input type="checkbox"/> Partial views. 37 CFR 1.84(h)(2)		<input type="checkbox"/> Corrections not made from prior PTO-948 dated _____
<input type="checkbox"/> Brackets needed to show figure as one entity. Fig(s) _____		<input type="checkbox"/> 17. DESIGN DRAWINGS. 37 CFR 1.152
<input type="checkbox"/> Views not labeled separately or properly. Fig(s) _____		<input type="checkbox"/> Surface shading shown not appropriate. Fig(s) _____
<input type="checkbox"/> Enlarged view not labeled separately or properly. Fig(s) _____		<input type="checkbox"/> Solid black shading not used for color contrast. Fig(s) _____
7. SECTIONAL VIEWS. 37 CFR 1.84(h)(3)		Comments
<input type="checkbox"/> Hatching not indicated for sectional portions of an object. Fig(s) _____		
<input type="checkbox"/> Sectional designation should be noted with Arabic or Roman numbers. Fig(s) _____		

## COMMENTS

REVIEWER J. Chase DATE 1-30-03 TELEPHONE NO. 703 305 2430ATTACHMENT TO PAPER NO. 1016

**Attachment for PTO-948 (Rev. 03/01, or earlier)**  
**6/18/01**

**The below text replaces the pre-printed text under the heading, "Information on How to Effect Drawing Changes," on the back of the PTO-948 (Rev. 03/01, or earlier) form.**

**INFORMATION ON HOW TO EFFECT DRAWING CHANGES**

**1. Correction of Informalities -- 37 CFR 1.85**

New corrected drawings must be filed with the changes incorporated therein. Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin. If corrected drawings are required in a Notice of Allowability (PTO-37), the new drawings **MUST** be filed within the **THREE MONTH** shortened statutory period set for reply in the Notice of Allowability. Extensions of time may NOT be obtained under the provisions of 37 CFR 1.136(a) or (b) for filing the corrected drawings after the mailing of a Notice of Allowability. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

**2. Corrections other than Informalities Noted by Draftsperson on form PTO-948.**

All changes to the drawings, other than informalities noted by the Draftsperson, **MUST** be made in the same manner as above except that, normally, a highlighted (preferably red ink) sketch of the changes to be incorporated into the new drawings **MUST** be approved by the examiner before the application will be allowed. No changes will be permitted to be made, other than correction of informalities, unless the examiner has approved the proposed changes.

**Timing of Corrections**

Applicant is required to submit the drawing corrections within the time period set in the attached Office communication. See 37 CFR 1.85(a).

Failure to take corrective action within the set period will result in **ABANDONMENT** of the application.